

Date 9/4/56

MATERIAL BALANCE ON RADIOACTIVE ISOTOPES OBTAINED BY

Shipment No.	Material	Date Received	Quantity Received	Quantity on Hand		Comments (Form of material, storage, disposal, decay, etc.)
				Date	Date	
0	Co ⁶⁰	June 1953	~ 5 mc	3.42 mc 7/31/56	3.42 mc 9/3/56	Material in form of 5 metallic pellets. Difference in quantity due to decay. Stored in lead container in main file.
1	Ni ⁶³	1/14/55	2 mc	1.975 mc 7/31/56	1.973 mc 9/3/56	Material in form of Watt's type plating bath. Stored in lead container Room 204.
2	Cr ⁵¹	1/14/55	3 mc	- -	- -	Material decayed to stable state
3	Po ²¹⁰	8/30/55	0.69 mc	0.47 mc 7/31/56	0.398 mc 9/3/56	Material in solution as PoNO ₃ . Difference in quantity due to decay and use in corrosion study. All waste solution evap. to dryness and placed in radioactive waste container Room 204.
4	Po ²¹⁰	12/27/55	0.79 mc	0.116 mc 7/31/56	0.098 mc 9/3/56	"
5	Ni ⁶³	12/28/55	3 mc	2.987 mc 7/31/56	2.984 mc 9/3/56	Stored in lead container Room 204. Difference in quantity due to decay.
6	Cr ⁵¹	2/17/56	78 mc	0.969 mc 7/31/56	0.445 mc 9/3/56	Difference in quantity due to decay. Material in form of fine powder. Stored in lead container Room 204.
7	H ³	3/29/56	150 mc	147 mc 7/31/56	147 mc 9/3/56	Material present as gas. Stored in unopened container Room 204. Difference in quantity due to decay.
8	H ³	4/4/56	150 mc	49.5 mc 7/31/56	49.5 mc 9/3/56	Material present as tritiated H ₂ O. Difference in quantity due to decay and corrosion study of titanium. Stored in hood of Room 204.
9	C ¹⁴	5/8/56	5 mc	5 mc 7/31/56	5 mc 9/3/56	Container unopened stored in Room 204.
10	H ³	5/16/56	100 mc	25 mc 7/31/56	- -	Material which was present as tritiated H ₂ O was completely used in corrosion study of titanium. All waste solution stored in liquid waste container Room 204.

Signed: E. A. Tones

UCCNHT0000535

Date: September 4, 1956

AREA SURVEY FOR RADIOACTIVE CONTAMINATION

Room No. 203 and 204

Instruments Used: Nuclear-Chicago Model 1615B with thin end window counter
Model D-34

Measurements and Comments:

Room 204 was surveyed August 24, 1956 and was found to be free of any measurable contamination. Wipes were made on all flat surfaces and were free of contamination.

Room 203 was surveyed September 4, 1956 and was found to be free of any measurable contamination.

All work done using H^3 was carried out in the hood of Room 204. All tritium was confined to that area.

All cutting and polishing of Po^{210} active samples was done in the glove box in Room 204. All dust picked up from glove box after each operation, by vacuuming.

Survey by: E. A. Toner

UCCNHT0000536